



U.S. DEPARTMENT OF
ENERGY

Legacy
Management

Formerly Utilized Sites Remedial Action Program

FACT SHEET

This fact sheet provides information about the Formerly Utilized Sites Remedial Action Program sites. When remedial action for a site is complete, the site will be managed under the U.S. Department of Energy Office of Legacy Management.

Background

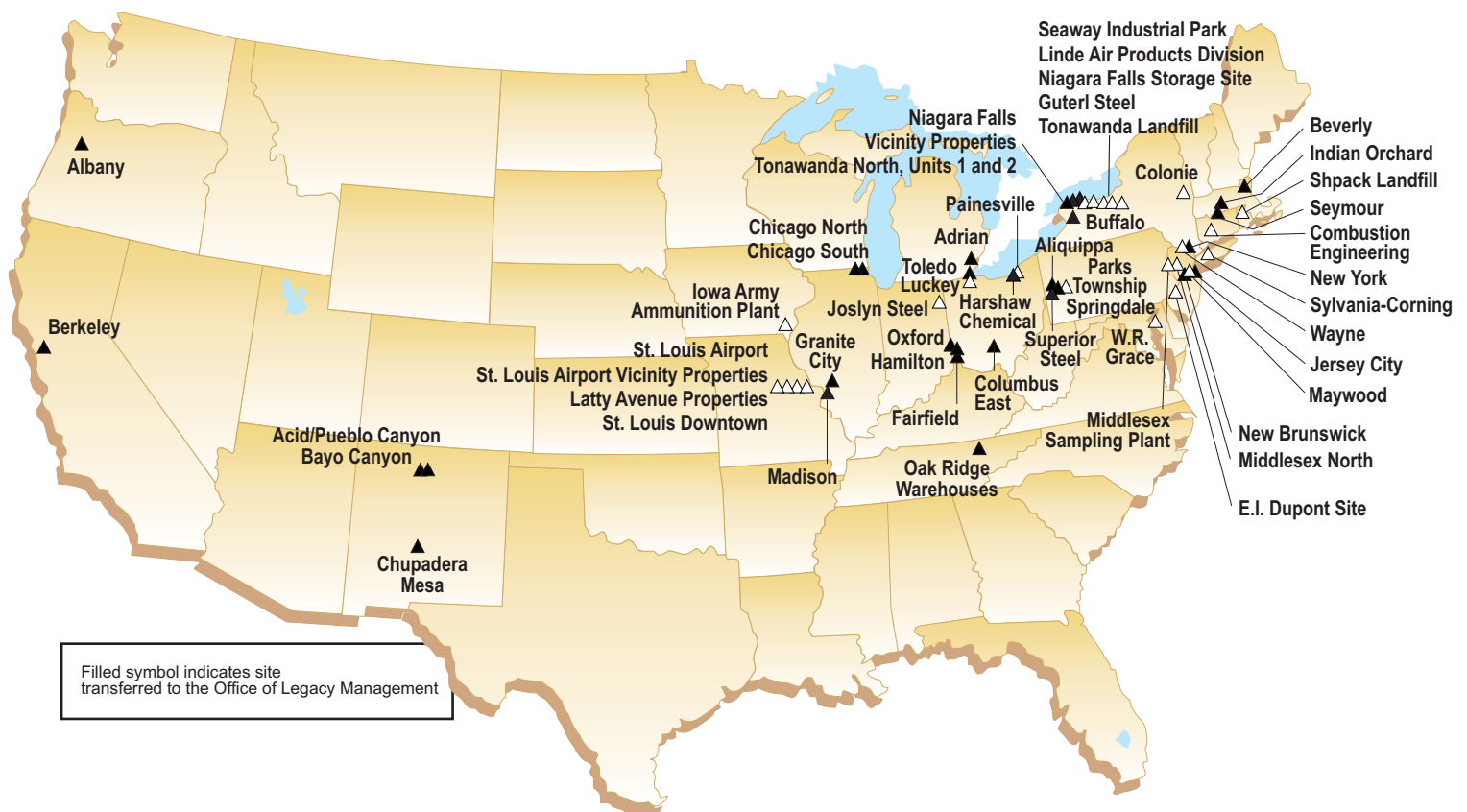
The U.S. Atomic Energy Commission (AEC) established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in March 1974 to evaluate radioactive contamination at sites where work was performed to develop the nation's nuclear weapons and early atomic energy program.

In August 1942, the U.S. Army directed the Manhattan Engineer District of the U.S. Army Corps of Engineers to manage development of the technology and production facilities for the first atomic weapons. In August 1946, President Truman signed the Atomic Energy Act, which created the civilian AEC. Congress abolished the Manhattan Engineer District on January 1, 1947, and transferred responsibility for the atomic weapons program to the newly formed AEC.

Through the 1960s, AEC employed contractors at many sites throughout the United States to supply materials

and services. Activities included processing and storing uranium and thorium ores and other radioactive materials for the nuclear weapons program, performing metallurgical research, and providing production and machining services. Although most of the sites were cleaned up to guidelines that were in effect at the time, more stringent standards have been put into effect since then. AEC identified a need to reexamine the sites in the early 1970s to evaluate potential risks to human health and the environment where levels of radioactive contamination might exceed the new standards.

In 1977, administration and execution of FUSRAP was assumed by the U.S. Department of Energy (DOE), whose initial task was to identify potential FUSRAP sites for cleanup. After reviewing records and radiological survey data for more than 600 sites connected with the nuclear weapons program, DOE identified 46 sites that required cleanup. Limited cleanup began in 1979, and major



remedial action was underway in 1981. Between 1981 and 1997, DOE remediated 25 of the 46 sites.

Congress transferred responsibility for FUSRAP site characterization and remediation to the U.S. Army Corps of Engineers (USACE) in 1997 as part of the Energy and Water Development Appropriations Act of 1998. USACE is remediating the remaining sites within the framework of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and the National Contingency Plan.

A 1999 Memorandum of Understanding between USACE and DOE defined the roles of each agency in administering and executing FUSRAP. DOE assumed responsibility for the 25 sites cleaned up between 1981 and 1997 and, beginning in 2004, the DOE Office of Legacy Management (LM) is responsible for surveillance, operation, and maintenance of the sites,

including monitoring and enforcement of any institutional controls imposed on the sites. Institutional controls typically depend on some legal order such as zoning ordinances, laws, and deed restrictions to protect public health and the environment from hazardous substances left in place at a site or to ensure the effectiveness of the remedy.

USACE assumed responsibility for cleanup of the remaining 21 of the 46 sites that DOE identified in the original assessment. USACE retains responsibility for surveillance, operation, and maintenance at a site for 2 years after site closeout, defined as the completion of cleanup and publication of notice in accordance with the provisions of CERCLA, the National Contingency Plan, USACE procedures. Beginning 2 years after site closeout, DOE assumes responsibility for long-term surveillance and maintenance of the site and enforcement of any institutional controls imposed on the site.

Completed FUSRAP Sites Assigned to LM

Alternate site names are shown in parentheses

[Acid/Pueblo Canyon Site](#)
Los Alamos, New Mexico

[Adrian, Michigan, Site](#)
(General Motors)

[Albany, Oregon, Site](#)
(Albany Research Center)

[Aliquippa, Pennsylvania, Site](#)
(Aliquippa Forge)

[Bayo Canyon Site](#)
Los Alamos, New Mexico

[Berkeley, California, Site](#)
(University of California)

[Beverly, Massachusetts, Site](#)
(Ventron)

[Buffalo, New York, Site](#)
(Bliss & Laughlin Steel)

[Chicago North, Illinois, Site](#)
(National Guard Armory)

[Chicago South, Illinois, Site](#)
(University of Chicago)

[Chupadera Mesa Site](#)
White Sands, New Mexico

[Columbus East, Ohio, Site](#)
(B & T Metals)

[Fairfield, Ohio, Site](#)
(Associate Aircraft)

[Granite City, Illinois, Site](#)
(Granite City Steel)

[Hamilton, Ohio, Site](#)
(Herring-Hall Marvin Safe Co.)

[Indian Orchard, Massachusetts, Site](#)
(Chapman Valve)

[Jersey City, New Jersey, Site](#)
(Kellex/Pierpont)

[Madison, Illinois, Site](#)
(Spectrulite, DOLO)

[Middlesex North, New Jersey, Site](#)
(Middlesex Municipal Landfill)

[New Brunswick, New Jersey, Site](#)
(New Brunswick Laboratory)

[New York, New York, Site](#)
(Baker and Williams Warehouses)

[Niagara Falls Vicinity Properties Site](#)
Lewiston, New York
(Niagara Falls Storage Site Vicinity Properties)

[Oak Ridge, Tennessee, Warehouses Site](#)
(Elza Gate)

[Oxford, Ohio, Site](#)
(Alba Craft Laboratories)

[Seymour, Connecticut, Site](#)
(Seymour Specialty Wire)

[Springdale, Pennsylvania, Site](#)
(C.H. Schnorr)

[Toledo, Ohio, Site](#)
(Baker Brothers)

[Tonawanda North, New York, Site, Units 1 and 2](#)
(Ashland 1 and Ashland 2)

[Wayne, New Jersey, Site](#)
(W.R. Grace)

Active FUSRAP Sites* Assigned to U.S. Army Corps of Engineers

[Colonie Site](#)
Colonie, New York

[Combustion Engineering Site](#)
Windsor, Connecticut

[E.I. Dupont Site](#)
Deepwater, New Jersey Site

[Guterl Steel Site](#)
Lockport, New York

[Harshaw Chemical Site](#)
Cleveland, Ohio

[Iowa Army Ammunition Plant](#)
Burlington, Iowa

[Joslyn Steel Site](#)
Ft. Wayne, Indiana

[Latty Avenue Properties Site](#)
Hazelwood, Missouri

[Linde Air Products Division Site](#)
Tonawanda, New York

[Luckey, Ohio, Site](#)

[Maywood, New Jersey, Site](#)

[Niagara Falls Storage Site**](#)
Lewiston, New York

[Painesville, Ohio, Site](#)

[Parks Township Shallow Land Disposal Area](#)
Apollo, Pennsylvania

[St. Louis Airport Site](#)
St. Louis, Missouri

[St. Louis Airport Vicinity Properties Site](#)
Hazelwood and Berkeley, Missouri

[St. Louis Downtown Site](#)
St. Louis, Missouri

[Seaway Industrial Park Site](#)
Tonawanda, New York

[Shpack Landfill Site](#)
Norton, Massachusetts

[Superior Steel Site](#)
Carnegie, Pennsylvania

[Sylvania-Corning Site](#)
Hicksville, New York

[W.R. Grace Co. Site](#)
Curtis Bay, Maryland

*Additional sites may be added

**Includes three vicinity properties.

Potential New Sites

After further research or receipt of new information, DOE identified several additional sites that are potential candidates for remediation under FUSRAP. These sites had to have been involved in MED/AEC work to be eligible for remediation under FUSRAP. DOE has referred these sites to USACE, which will perform preliminary assessments to evaluate contaminant levels. USACE will propose that sites be added to the program where risks or contaminant levels exceed current standards. Congress may also designate a site for remediation under FUSRAP. Since 1997, seven additional sites have been added to FUSRAP.

Current Status

DOE is responsible for the 25 sites that were completed before 1997. Since then, USACE has completed five additional sites and has transferred responsibility for those sites to DOE as well. USACE currently is responsible for remediation of the remaining sites.

USACE has also performed additional assessment work at the New Brunswick site in New Jersey. In accordance with the 1997 legislation and the 1999 Memorandum of Understanding, if additional assessment or remedial action is required for a FUSRAP site that has been transferred to DOE for long-term surveillance and maintenance, USACE will perform the additional work. In April 2009, DOE identified previously unassessed radioactive contamination at the Middlesex North (Middlesex Municipal Landfill), New Jersey, Site and referred the site to the Corps of Engineers for further assessment and characterization.

Legacy Management Activities

DOE remediated most of the FUSRAP sites to a condition that allows unrestricted use of the site following cleanup. These sites pose no risk for any possible future land use, including subsistence farming. The subsistence farming land-use scenario is the most restrictive because it assumes that humans living on the property will consume food that is produced on the property. Contaminants must be removed to the point that possible routes of exposure (ingestion, direct exposure, and inhalation) present no risk to human health. For these sites, DOE long-

term surveillance and maintenance activities consist of responding to questions or concerns from stakeholders and managing site records so future custodians may readily answer questions or concerns about the site.

At some sites, residual contaminants were left in place, and some site uses must be restricted. At those locations, DOE will monitor land use to ensure protection of human health and the environment. DOE will conduct site surveillance and monitoring activities in accordance with approved site-specific plans. Activities may include site inspections and reporting, maintenance of access controls, environmental monitoring, records and data management, and responses to stakeholder concerns.

Regulatory requirements are described in site documents available on the LM website at <http://www.lm.doe.gov>.

DOE will manage the FUSRAP Considered Sites Database to provide public access to information about all the sites that were evaluated during the search for potential FUSRAP sites. This information documents eligibility determinations and characterization, remediation, verification, and certification activities for all FUSRAP sites. The Considered Sites Database is available to the public online at <http://csd.lm.doe.gov/index.cfm>.

Resources

2001 Report to Congress on Long-Term Stewardship
http://www.LM.doe.gov/documents/3_pro_doc/lts_study/rpt_to_congress_vol_1.pdf.

Considered Sites Database
<http://csd.LM.doe.gov/index.cfm>.

DOE Legacy Management website
<http://www.LM.doe.gov/>.

U.S. Army Corps of Engineers website
https://environment.usace.army.mil/what_we_do/fusrap/.

Contacts

For more information about FUSRAP, contact

U.S. Department of Energy
Office of Legacy Management
2597 Legacy Way, Grand Junction, CO 81503
(970) 248-6070 (monitored continuously) or
(877) 695-5322 (toll-free)